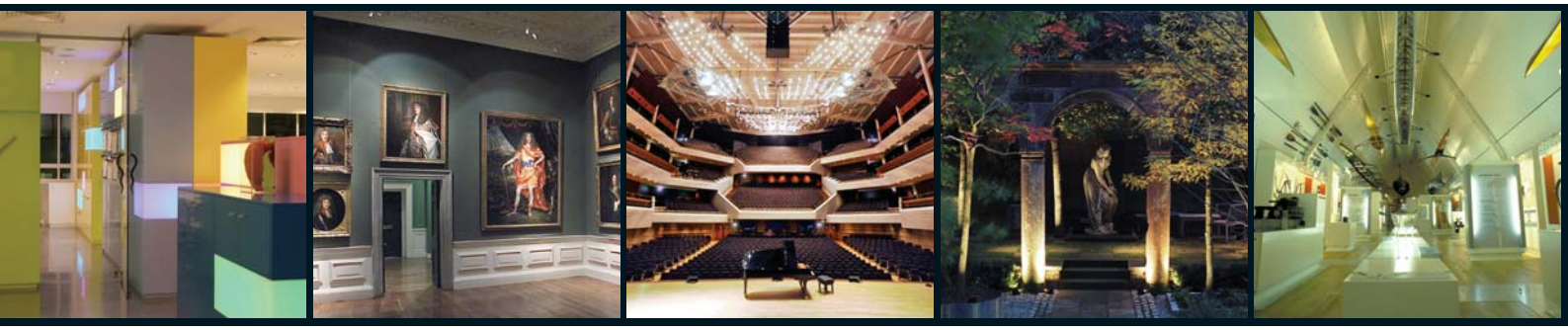
sophisticated lighting control
made simple

multiload technology

“Installing Multiload Technology products is like painting by numbers”

Martin Lynch, Raytell Electrical Company



The lighting specialists

At Multiload Technology we design and produce an exciting range of electronic control systems, dimmers, LED drivers and low voltage transformers for lighting professionals.

Our products are user friendly, easy to install, simple to maintain and incredibly reliable. They are, quite literally, ‘fit and forget’ systems.

A fresh approach to lighting control

Because we believe in keeping things simple, we took a fresh approach and created unique electronic circuitry for lighting controls. Our entire product range of sophisticated scene setting systems and controls is based on this new technology that’s totally incorruptible and dependable.

Bright ideas

Resting on our laurels is not an option. We’re always researching new ideas and adding functions to our existing controls. Now we’ve focused our ideas and intelligence on powering LEDs and the LEDPowerPlant is a fantastic way to control this exciting light source, with all the reliability you expect from the creators of the legendary VoltMaster.

Bespoke designs

As lighting specialists we can work with you to develop your ideas, advise on specifications and installation, create customised solutions, help with project management and ensure best electrical practice.

The end results will be exciting, innovative and economical to run and maintain.

Installations shown

this page:
Brodie and Stone Head Office
National Maritime Museum
Bridgewater Hall
Private garden
Henley Rowing Museum

right hand page:
St Patrick‘s Church
St Pancras Renaissance Hotel
Thermae Bath Spa
Private Club
Wales Millennium Centre

doing things differently ...

why lighting professionals choose Multiload products

Easy installation

As our control products are based on universal 0-10V signalling, they are easy for any electrical contractor to wire using standard alarm cable for the signals: no need for expensive data cable or special measures to avoid signal corruption.

And, we also supply dedicated wiring diagrams for electrical contractors worldwide, so they can install and troubleshoot using existing skills.

Low maintenance

We don't do temperamental at Multiload. Fluctuating voltages don't affect our products, so you'll never have to pay for the expensive specialists who are needed to re-set and soothe sensitive digital systems upset by power surges and spikes.

User-friendly

The beauty of our approach is that everything's familiar and intuitive. You can see, feel and touch our controls. With no software or programming involved, you can set sophisticated scenes and fade between them whenever you like, giving you total control of your installation.

Good looking

We're not only functional we're also fashionable. Our wall plates come in a range of finishes that will blend or contrast with any interior design, and we'll also custom design any controls to your specification if you prefer. Our controls work with any light source and you can have many simple rotary dimmers in different positions around a room.

Totally safe

Safety is one of our key features. Our drivers (LED) and transformers (LV) conform to the highest safety standards – even under-water lighting (SELV). And due to our very low levels of Radio Frequency Interference, our products won't interfere with other electrical equipment.

100% consistent

Thanks to our incredibly accurate voltage stability, you can be sure that whatever lighting effect you choose, it will remain consistent. The brightness won't fluctuate and sparkling colours won't suddenly lose their lustre. Our products work brilliantly with lamps from any quality supplier and you can rely on truly stabilised brightness levels even when dimmed.

Ultra long cable runs

When we say long – we do mean long! You can site our drivers and transformers huge distances away from the light sources (even greater than 50m) and still get even, stabilised brightness. This gives you more scope for design and means you can keep transformers well away from swimming pools and wet areas. It's also much easier to maintain equipment kept in a convenient area away from the action.

Incredible lamp life

All our drivers and transformers give lamps a longer lease of life by creating the perfect operating environment. In fact it's been proved that our transformers for low voltage 12V and 24V lighting give up to four times the life stated by lighting manufacturers … which is especially good news if you have high ceilings and need to put up expensive scaffolding every time you change lamps.

applications

The right lighting can create intimacy, highlight architectural features, cast an enticing glow over a retail display and pinpoint key paintings in an art gallery.

It can also welcome church congregations, enthrall concert goers and inspire landscape gardeners. The possibilities are endless and every project is unique.

retail

residential

this page:

Nike Europe Concept 1
Private Residence
Spool Post Production Studios

Store designers know how lighting can influence sales, boost a brand and build an image. Running lamps at the optimum stabilised voltage means products will always be shown to their best advantage, with true colour and sparkle. It is also more cost efficient: extending lamp life and reducing maintenance.

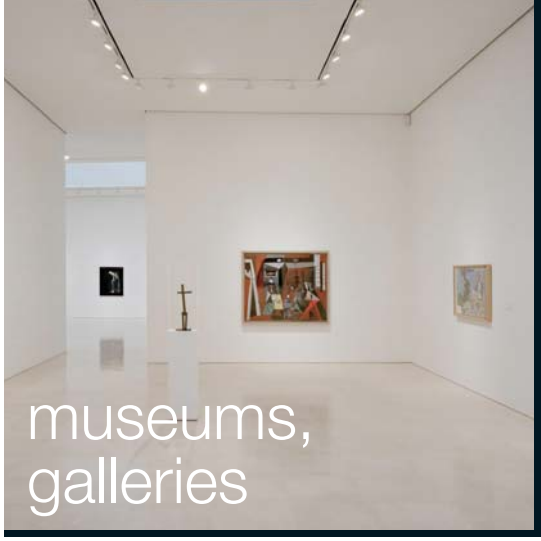
Equally at home in houses of any size from modest to mansion, our LED drivers and LV transformers, as well as a wide range of ergonomic controls for all contemporary light sources, create energy efficient, exciting lighting scenes that are easily ‘maintained’ by the home owner.

concert halls and studios

In concert halls and recording studios it’s essential to minimise background electrical noise. Extremely low levels of RFI can be achieved and, coupled with remote positioning, product noise can be eliminated from crucial areas. Places of worship also need to be quiet, but lighting needs to be versatile for different occasions; it also needs to offer the lowest cost of ownership and be easily operated by non-technical parishioners.

this page:

Museo Picasso Malaga
The Goring Hotel
King's College Chapel
Les Ambassadeurs
Thermae Bath Spa



museums, galleries

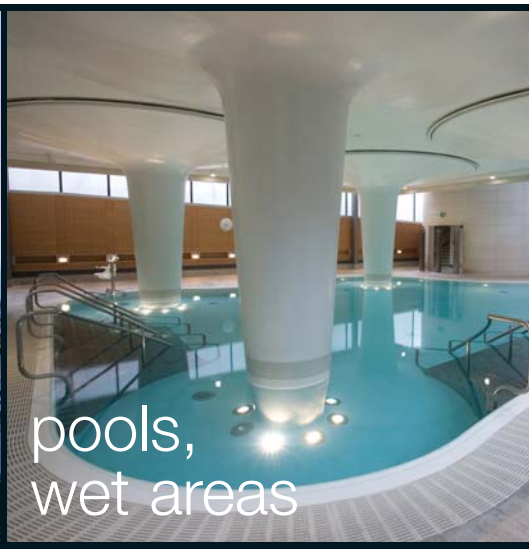
hotels, clubs, restaurants

Museums and galleries are a challenge – with many occupying listed buildings. With the correct controls and our drive units perfect stabilised light levels can be achieved to preserve and protect fragile exhibits. Extra long cable runs mean you can site the electronics well away from the light sources, vastly improving design options as well as satisfying constraints such as those imposed by English Heritage.

Diners and hotel guests expect an elegant atmosphere, while the managers need to watch their costs. Our controls create different moods for different occasions without additional commissioning, programming or troubleshooting costs. Our drive units greatly increase the life of LEDs and low voltage light sources.

places of worship

landscaping, exteriors

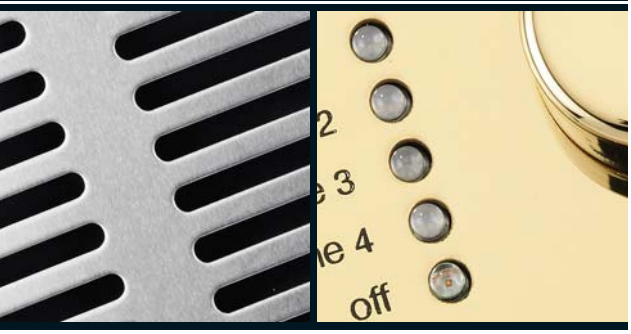


pools, wet areas

Whether it is scorching heat or the best of British rain, the vagaries of weather can play havoc with lighting – water and electricity are deadly bedfellows.

Thanks to extra long cable runs, drivers and transformers can be installed a very long way from the light source – in a plant room, say – without affecting either light output or lamp life. All our drives meet the highest safety standards (SELV) and, for outside use, remove the requirement for expensive armoured cable. An exterior mounting version is available where other options are not suitable.

products



controls

4 MoodMaker Scene Set System
6 Level Select System
6 Rotary Push Switches

drives

9 LED PowerPlant
10 VoltMaster Intelligent Transformer
11 Mains Dimmer
11 LampConserver
11 LampConserver Dimmer

auxiliaries

12 Contactor Controller MCC
12 Take Control MTC
13 Concealed Door Sensor CDS
10 Pluggable Distribution Box

MoodMaker Scene Setting System

Intelligent lighting control – made simple

MoodMaker is a sophisticated scene setting lighting system which is easy to install, user-friendly and highly reliable. Without microprocessors and memory chips, which are so susceptible to corruption, MoodMaker offers a totally unique and fresh approach to lighting controls, which puts **you** in control of the installation.

MoodMaker provides four moods plus full on and off (ie. six scenes) for any number of lighting channels (circuits) and can control all light sources by providing a 0-10V signal to drive units such as LED drivers, fluorescent ballasts, low voltage transformers (including VoltMaster, p10); neon and argon transformers. Plus, Multiload's Analogue Mains Dimmer AD2500 (p11) can be used for all mains dimmable loads.

MoodMaker comprises:

- 6-channel Master Set-up Unit (with Auxiliary Set-up Units for each additional 6-channels) based on the universally compatible 0-10V signalling standard.
- Up to four remote Scene Select wallplates (see right) positioned around a room or building.

Available as:

Standard version: comprising a Master Set-up Unit with Scene Select wallplates. Auxiliary Set-up Units can expand the system to any number of channels.

Cabinet version: 6-channel, 12-channel or 18-channel lighting control cabinets incorporating Set-up Unit(s) together with full incoming and outgoing electrical protection, output for emergency lighting, and 10A switching relays for each channel.

Key features

- Super smooth dimming and fading.
- Ergonomic Scene Select wallplates in a wide range of finishes.
- Simple set-up controls with finger adjustable presets for each channel for each mood.
- Easy installation for non-specialists using standard cabling.
- Ability to handle any light source, especially useful for LEDs and CFLs.
- No restriction on cable length.

Benefits

- Immunity to high voltage spikes and magnetic surges that corrupt digital systems.
- No need for programming or troubleshooting by software specialists
- Straightforward maintenance by any electrician
- Clear guides covering installation design and specification

"A eureka moment for me . . . something that can't go wrong"

Greg Marshal, Spool Post Production

MoodMaker Set-up Unit

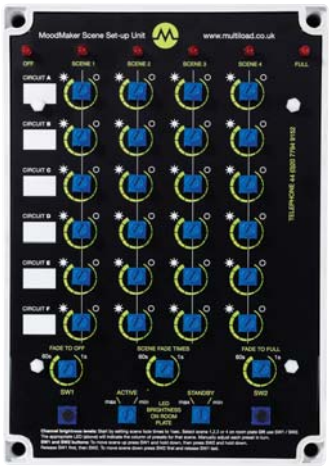
Simple manual operation and adjustment

Light levels. The light level for each mood is set up on its own finger-adjustable preset, with an LED lit above the adjusters column to show the mood selected on the wallplate.

Fade times. Three adjusters set the fade times between moods, plus full on and off. These can be set from 1–60 seconds.

Scene Select wallplate LEDs. The brightness or intensity of the LEDs on the wallplate(s) can be set using two adjusters inside the Master Set-up Unit.

Standard MoodMaker



Comprises
Master and Auxiliary Set-up Units with Scene Select wallplates

Wallplates and mains power cabling are connected to the Set-up Unit, which outputs the 0-10V signals for the drive units and also provides overall mains and individual channel switching.

Product order codes
Set-up Units:
Master: MMSU
Auxiliary: MMSU-AUX

Cabinet MoodMaker

6, 12, or 18-channel lighting control cabinets incorporating Set-up Unit(s) together with full incoming and outgoing electrical protection, output for emergency lighting, and 10A switching relays for each channel.

Product order codes
MMCAB6
MMCAB12
MMCAB18

MoodMaker Scene Select Wallplates

Product order codes
Wallplate: MMWP / XX

(where XX denotes finish specified – see standard finishes below)

Up to four Scene Select wallplates can be wired to the MoodMaker Master Set-up Unit.

Scene selection is made by smooth tactile rotation of a highly reliable digital encoder which can never be over-rotated.

An LED indicates which of six scenes is selected.

To avoid unnecessary glare in the room, the LED brightness can be reduced for normal use, while still providing a pulsed higher brightness for easy viewing during scene selection.

Wallplates are available in a wide range of finishes. Special finishes are available on request.

Standard finishes available

BMA	AB	PB	PS	SS	SC
ANTIQUE BRONZE	ANTIQUE BRASS	POLISHED BRASS	POLISHED STAINLESS	SATIN STAINLESS	SATIN CHROME

BL	WH	GO
BLACK	WHITE	GOLD

Specials

Bespoke Scene Select wallplates can be designed for specific applications and can include additional functions, such as push-buttons.

Bedside wallplate designed specifically for the Royal Suite at St Pancras Renaissance Hotel.

Level Select

Single channel brightness level selection

Product order codes
LS4/XX: 4 levels and off
LS2/XX:: 2 levels and off

(where XX denotes finish specified – see below)

Level Select wallplate is a controller for a single-channel of lighting, housed in a single-gang wallplate with various finish options. A rotary knob selects between either one of four preset levels and off (LS4), or one of two preset levels and off (LS2). LEDs on the wallplate indicate the selection.

Light levels are preset on finger-turn adjusters on the back of the plate and are tamper proof once the plate is installed.

Level Select wallplates are wired in 3-core cable carrying an SELV low voltage signal, either to:

- Multiload Analogue Mains Dimmer AD2500 (p11) for mains dimmable loads, or
- Multiload Contactor Controller MCC (p12) which provides a 0-10V signal to 0-10V drive units for LEDs, fluorescents, etc.

These units switch and isolate the mains supply controlled by the 3-core low voltage signal from the wallplate(s).

Features and benefits

- Individual control and selection of pre-adjusted light levels for a single channel of lighting.
- Hard wired memory, no corruptible software.
- Simple and safe manual adjustment of light levels: no programming or commissioning.
- Preset to set the brightness of the LEDs on the wallplate.
- Preset to set fade time between levels from 1–10 secs.
- For use as a system with AD2500 for all mains dimmable lighting and MCC for all 0-10V drive units such as LEDs or fluorescents.

Technical

- Switches 10A when used with AD2500 and MCC
- SELV compatible when using AD2500 and MCC

Finishes available

BMA	AB	PB	PS	SS	SC
ANTIQUE BRONZE	ANTIQUE BRASS	POLISHED BRASS	POLISHED STAINLESS	SATIN STAINLESS	SATIN CHROME

BL	WH	GO
BLACK	WHITE	GOLD

Rotary Dimming Controls

The missing link for gridplate systems

Rotary Dimming Modules combine 0-10V or 1-10V rotary potentiometer dimming with push on/off mains switching in a single module.

Ideal for the drive units for energy saving light sources, such as LEDs, fluorescents, low voltage, neon and argon.

Available as

- **Rotary Push Switch (RPS)**
  Direct control of drive units without additional hardware.
  Mains switching and separate low voltage signal direct to drive units.
- **Rotary Push Control (RPC)**
  For Retrofit and Multiple control positions.
  Single 2-wire low voltage control of mains switching and dimming: uses MCC (p12) and allows easy retrofit. Uses MTC (p12) to provide multiple control positions around a room.

Energy saving light sources need dedicated drive units. Most drive units accept a 0–10V or 1–10V analogue signal for dimming the lighting. This new type of rotary dimming control provides this signal for gridplate systems.

Modules clip into grid-plates from UK manufacturers including MK GridPlus, Wandsworth Series 2 and 3, Hamilton, Forbes and Lomax, Crabtree.

Rotary Modules (including the knob) come in a range of finishes to match the chosen manufacturer's gridplate. All manufacturer's gridplates and backboxes should be purchased directly from a wholesaler. Multiload Technology can supply these items on request if necessary.

Rotary Push Switches RPS

For direct dimming and switching of drive units

Product order codes
RPS1
RPS2
RPS3
Manufacturer and finish to be specified

RPS Modules provide the signal for, and directly switch the mains supply to 0-10V or 1-10V drive units, such as: LED drivers; fluorescent ballasts; low voltage transformers, including VoltMaster (p10); neon and argon transformers; and the Analogue Mains Dimmer AD2500 (p11) for mains dimmable loads. No extra hardware is required.

Features and benefits

- Push on/off 10A switching of mains supply.
- Change-over mains switch allows for two / multiple-way switching.
- Separate isolated control varies the signal between 0-10V or 1-10V.
- Brightness varies over full rotation of control knob.
- Minimum and maximum brightness presets to set the range of the dimming.
- Available for single drive unit or for 2–25 drive units.
- Wide range of finishes available with different mouldings for all UK gridplates.

RPS range

Three standard types of RPS modules are available, each with a slightly different control technique:

RPS1 2-wire 1-10V control of one drive unit.

RPS2 2-wire 1-10V control of 2–25 looped drive units.

RPS3 3-wire control for VoltMaster (p10).

NB: Special 2-wire modules for LED driver(s) which require a signal down to 0V are available on request.

Rotary Push Controls RPC

For retrofit and multiple control positions

Product order codes
RPC1
RPC2
Manufacturer and finish to be specified

RPC Modules control the dimming and mains switching, via a single 2-core cable, of 0-10V or 1-10V controlled drive units including LED drivers, fluorescent ballasts, low voltage transformers, neon and argon transformers, and the Analogue Mains Dimmer AD2500 (p11) for mains dimmable loads. For retrofit, this cable may be existing cable (disconnected from the mains), or for new installations it may be a 2-core signal cable – the cable in both cases will carry a low voltage signal.

For mains switching of 0-10V drive units the Contactor Controller MCC (p12) is always required (with the exception that the RPC can be wired directly to the AD2500 to handle both the dimming and switching of mains driven lighting). For multiple control positions around a room the Take Control MTC (p12) is also required .

Features and benefits

- Single 2-wire low voltage control of dimming and mains switching.
- Brightness varies over full rotation of control knob.
- Minimum and maximum brightness presets to set the range of the dimming.
- Available for a single drive unit or for 2–25 drive units.
- Retrofit dimming and switching using single existing 2-core cable if used with Multiload Contactor Control (MCC) or AD2500.
- Two to four rotary dimming positions around a room if used with Take Control (MTC).
- Dims many AD2500s in unison allowing single-point control of large banks of lighting.
- Wide range of finishes available with different mouldings for all UK gridplates.

RPC range

Two types of RPC modules are available, each with a slightly different control technique:

RPC1 Standard 2-wire 0-10V or 1-10V control of one MCC or direct to one AD2500

RPC2 2-wire control of 2–25 AD2500s (or MCCs if required)

products that provide solutions

Great design demands exceptional technical expertise regardless of whether the installation is straightforward or complicated. The installations featured on this page, the new Renaissance Hotel St. Pancras, and the total refurbishment of St. Patricks Church, are not only visually stunning, but cater for the need to 'future proof' by allowing lamps to be replaced with new light sources, eg. LEDs and plasma, at such time that they are considered to be acceptable.

St Pancras Renaissance Hotel, London

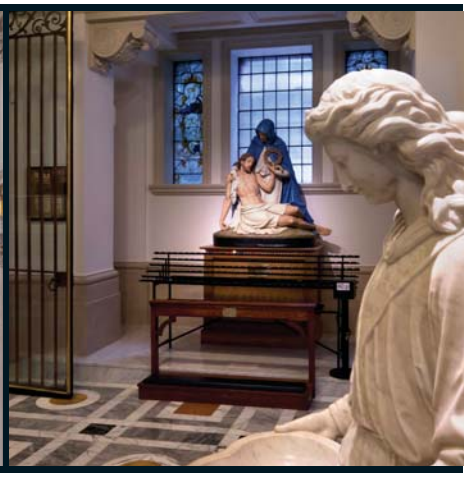
4 X 18-way Cabinet MoodMaker
5 X 12-way Cabinet MoodMaker
3 X 6-way Cabinet MoodMaker
3 X Moodmaker Scene Select Wallplate MMWP/black
2 X MMWP/MB Royal Suite bespoke bedroom Wallplate
55 X AD2500 Mains Dimmer
67 X VoltMaster

"The St Pancras Renaissance Hotel project needed some unique solutions and Multiload Technology provided exactly the bespoke service required. All the fine area lighting scene-controls are via their MoodMaker, and special VoltMaster transformers were designed to meet the needs of the chandeliers and accent lighting. I am extremely happy with the results."
Martin Valentine Lighting Group Director AECOM for project

"For St. Patrick's Church I needed lighting to be discreetly installed, illuminating this architecturally sensitive environment to its best potential. Multiload Technology equipment was the perfect solution, offering quality, performance, reliability and simplicity. With a responsive after sales service Multiload Technology were a joy to work with and ticked all the boxes." **Jin Yee Lim,** Principal, Liminaires Ltd

St Patrick's Church, Soho, London

2 X Standard MoodMaker Master Set-up Unit
2 X Standard MoodMaker Auxiliary Set-up Unit MMSUAUX
2 X Moodmaker Scene Select Wallplate MMWP/white
8 X Mains Dimmer AD2500
11 X VoltMaster VMD300/12/MO
12 X VoltMaster Extended VMDE300/12/MO
3 X Contactor Controller MCC



LEDPowerPlant

Constant voltage LED driver

Product order codes

Low voltage signal version:
LEDPP240/24/LVS;
LEDPP240/12/LVS

Switching isolated signal version:
LEDPP240/24/SIS;
LEDPP240/12/SIS

Extremely reliable power supply for linear LEDs which will outlast more than a few generations of LED sources.

LED PowerPlant gives a truly stabilised DC voltage for 24V (rating 240W) or 12V (rating 240W) LED sources, which run at their best at the nominal voltage. Other voltage outputs are available on request.

Delivers optimum stabilised DC voltage at the LEDs irrespective of mains voltage fluctuations.

LEDPowerPlant's unique electronic sensing circuitry allows it to be positioned great distances from the light sources, solving the problems associated with positioning and concealing power supplies.

Exceptionally smooth dimming is achieved by accepting a standard 0-10V signal. An internal relay completely switches off the power to the LEDs when the signal is taken below 1V. This, and remote positioning, greatly simplifies wiring, especially when dimming, and increases safety using only low voltage cable to the light source.

It is a true SELV product and is suitable for any sensitive environment where safety is paramount.

Available as

- **Interior (IP20) LEDPowerPlant.** 24V and 12V versions with rating of 35W to 240W
- **Exterior (IP66) LEDPowerPlant.** 24V and 12V versions with rating of 35W to 240W

Features and benefits

- Flexible positioning with cable runs typically up to 100m, ensuring:
  - enhanced design options, with clean and uncluttered installations.
  - no need to conceal power supplies near LEDs.
- Stabilised DC voltages with an accuracy better than 99%.
- Achieves the optimum environment for running linear LEDs.
- Smooth dimming and switching from an industry standard 0-10V signal.
- Increases installation safety by use of safe extra low voltage cable.
- All safety standards (SELV).

Technical

- Unique SoftStart circuitry eliminates high surge currents which occur during switch-on or interruption of the mains supply.
- Signalling protocol: industry standard 0-10V.
- DALI versions available.

"Multiload Technology make the best transformers bar none"

Ray Molony, Editor Lux Magazine

VoltMaster 'Intelligent Transformer'

Intelligent transformer for low voltage lighting

Product order codes

IP20:
Standard 12V 0-10V signal:
VMD300/12/YY
VMD300/YY

Standard 24V 0-10V signal:
VMD400/12/YY

Extended distance version:
VMDE300/12/YY

IP66:
Add Prefix EXT-:
EXT-VMD400/12/YY
EXT-VMDE300/12/YY

Where YY = SO: single outlet; MO: multiple outlet

For DALI and DSI signal types add additional suffix /DALI or /DSI

VoltMaster is the only true voltage stabilised power supply for 12V and 24V AC low voltage light sources.

VoltMaster can be positioned at great distance from the lamps, and thanks to its unique voltage sensing circuitry delivers the optimum stabilised voltage at the actual lampholder (overvoltage greatly reduces lamp life, and undervoltage reduces light output). It gives brighter and sharper illumination than alternative high frequency electronic transformers.

VoltMaster gives extraordinary lamp life. Using good quality lamps it can extend lamp life four times more than claimed by lamp manufacturers and this at the optimum voltage. This voltage shows the true colour and sparkle which makes this light source so popular. Dimming further increases lamp life.

VoltMaster has also been proven to be especially effective at controlling and dimming the replacement LED MR16 lamps as well as other AC LED sources.

It gives exceptionally smooth dimming using an industry standard 0-10V signal, stabilising the brightness at all levels down to effectively zero output.

Available as

- **Interior (IP20) VoltMaster.** 12V and 24V single and multi-outlet, with ratings of 35W to 300W and 35W to 400W.
- **Exterior (IP66) VoltMaster.** 12V and 24V single and multi-outlet, with ratings of 35W to 300W and 35W to 400W.

Features and benefits

- Flexible positioning with cable runs typically up to 50m, ensuring:
  - enhanced design options, with clean and uncluttered installations.
  - no noise in illuminated areas.
  - increased installation safety using safe low voltage cable to the lamp positions.
- Exceptional lamp life, reducing number of lamp changes.
- Ensures the optimum voltage for vibrant colour and sparkle.
- Guaranteed stabilised light levels irrespective of mains fluctuations and loading.
- Smooth dimming with stabilised brightness at all levels.
- Meets all safety standards (SELV compatible).

Technical

- Unique SoftStart circuitry eliminates high surge currents which occur during switch-on or after interruption of the mains supply.
- Signalling protocol: industry standard 0-10V.
- DSI and DALI versions available.

Pluggable Distribution Box

Product order code
PDB

PDB greatly simplifies VoltMaster installation. It allows a single feed cable to be run most of the way to the lamps and then locally distributed to each individual light fitting.

Benefits and features

- Fits through standard 75mm cut-out, ensuring easy maintenance by removing the need for access hatches.
- Reduces number of connections made by electrician.
- Allows connection of lamps of different wattage.
- Single feed cable from remote VoltMaster, local to lamps.

Analogue Mains Dimmer
AD2500

Product order code
AD2500

Multiload's Analogue Mains Dimmer uses unique dimming technology, proven over a decade, to create a professional high power mains dimmer rated up to 10A.

AD2500 accepts a 1-10V signal for dimming control, giving exceptionally smooth dimming, and in addition uses its internal relay to isolates the mains supply to the load completely when this signal is taken below 1V.

It is ideal for high power loads such as chandeliers, because many AD2500s can be connected to the same signal to dim in unison as a group.

Ideal for retrofit

- Can be interposed in the existing mains supply to the load. The live is taken into the AD2500 where it is 'phase-chopped' to produce a variable live (dimmed) output for the load.
- As the signal to the AD2500 requires only a 2-core low voltage cable, Multiload's RPC Rotary Push Control (p7) can use existing switch positions and wiring to provide both dimming and switching controlled by this signal.

Features and benefits

- Can dim and switch any phase-dimmable mains load.
- Eliminates irritating acoustic hum, or dimmer buzz, at the control point.
- Easy to retrofit.
- Preserves the life of drive units.
- Signal wiring SELV compatible.
- Proven reliability.

Technical

- Uses leading-edge phase control to dim any mains load.
- Rating: 10A, 75W to 2.3KVA.
- Signal input is isolated 0-10V, SELV compatible.
- Incorporates an internal 10A mains relay.
- Unique SoftStart circuitry eliminates high surge currents which occur during switch-on or after interruption of the mains supply.

Lamp Conserver
MLC

Product order codes

MLC2500

Dimmer version: MLC2500DIM plus

Push Switch Rotary MRM/XX (where XX denotes finish)

Multiload LampConserver dramatically prolongs lamp life of all types of tungsten filament lamps, up to 10A rating. Simple installation makes the MLC2500 ideal for both new build and retrofit into existing troublesome installations.

Mains voltage is frequently up to 10% higher than the nominal 230V expected: MLC2500 can reduce this voltage before it gets to the lamps – which greatly increases lamp life (5% reduction doubles lamp life). Payback on lamp replacement alone can be achieved within a year of installation.

Available as

LampConserver MLC2500. Stand-alone – simply wired by interposing between mains switch and load.

LampConserver Dimmer MLC2500DIM with **MRM rotary module.** Allows lamps to be dimmed and switched by connection of a remote MRM (which has identical features to RPS (p7) but uses **mains potential** 2-core signal for dimming).

- Eliminates irritating acoustic hum, or dimmer buzz, at the MRM wallplate.
- MRM – push on/off 10A switching of mains supply plus separate mains potential control signal.

Features and benefits

- Totally eliminates surge currents and their fatal effect on tungsten lamps.
- Eliminates nuisance tripping of MCBs and fuses caused by surge currents.
- Increases safety of circuit protection by allowing fuses and MCBs to be rated at nominal current.
- Special voltage control circuitry reduces overvoltage to the lamps, thus greatly increasing lamp life .
- Ideal for pre-setting brightness levels to balance the aesthetic effects of different light sources.

Technical

- Rating: 10A.
- Unique SoftStart circuitry eliminates high surge currents that occur during switch-on or after mains supply interruption.

Contactor Controller
MCC

Product order codes

MCC/DIN
MCC/SA

Multiload Contactor Controller (MCC) accepts a 0-10V signal from a Rotary Push Control (RPC, p7), Take Control (right) or 0-10V lighting system (eg. MoodMaker, p4) and provides a boosted signal for up to 25 standard drive units, such as LED drivers and fluorescent ballasts.

When the signal is taken below 1V it switches off the mains supply to the load via an internal relay rated at 10A. Any size load can be switched by the addition of a standard mains voltage controlled lighting contactor.

Available as

- **Din rail mounted MCC/DIN** (pictured). To be used as a building block in systems.
- **Stand-alone MCC/SA.** Single or multiple MCCs in a stand-alone plastic enclosure.

Features and benefits

- Can be used as a building block in any 0-10V system.
- Uses 2-core cable to carry low voltage SELV compatible signal, which controls both the dimming and switching of a single channel of lighting.
- Allows use of existing cable for easy retrofit.
- Rotation of the RPC Rotary Push Control knob (p7) dims the lighting smoothly to any brightness level.
- Single push of RPC knob toggles mains switching on/off.

Technical

- Requires connection to the mains which also supplies mains power to the drive units via the on-board relay.
- Rating of relay: 10A.
  For larger loads, an additional mains voltage controlled lighting contactor can be switched by the MCC mains output.
- Additional normally-closed mains output facilitates stand-by lighting and fail-safe connection.
- Input and output 2-core signal cable is SELV compatible.

Take Control
MTC

Product order codes

MTC4DIN
MTC4SA
MTC2/2DIN
MTC2/2SA

Multiload Take Control (MTC) allows any one of up to four 0-10V signal sources to take control of the dimming and switching of a single channel of lighting; when a signal is changed it automatically routes to the MTC output.

Up to four 0-10V Multiload Rotary Push Controls (RPC p7) can be connected, one to each of the MTC inputs, allowing the lights to be manually controlled from multiple positions.

The MTC output is **always** connected to a Multiload Contactor Controller MCC (left) which provides mains switching and a boosted dimming signal for drive units.

When a lighting control system (eg. MoodMaker) is connected to an MTC input, it can be manually overridden by RPC(s) connected to other inputs.

Available as

- **Din-rail mounted MTC4/DIN** (pictured)**.** To be used as a building block in systems. NB. This option uses a Din-rail mounted MCC
- **Stand-alone MTC4/SA.** Combined with an MCC in a stand-alone plastic enclosure for individual channels of lighting.
- **Dual version.** Available as Din-rail (MTC/2DIN) or stand-alone (MTC/2SA). For two channels of lighting with only two signal sources per channel. NB. Requires two MCCs.

Features and benefits

- Allows up to four rotary dimming and switching positions around a room.
- Immediate control from any position.
- Allows any channel of a lighting control system to be manually overridden to any brightness level.
- Can be used as a building block in any 0-10V system.
- Low voltage signal controls both dimming and switching.
- SELV inputs and output 2-core cable.
- Allows use of existing cable for easy retrofit.
- Single push of RPC knob toggles mains switching on/off from any position.

Technical

- Requires no mains power and is connected only to the signal sources and the MCC.

Concealed Door Sensor
CDS

Product order code
CDS

A fully concealed door operated switch for hinged or sliding doors, which enables the opening and closing of the doors to operate lighting or other equipment (such as fans).

The Concealed Door Sensor comprises three component parts: a switch sensor, a switch activator disc and a control box. The sensor and activator disc are recess mounted in the door and frame and can be concealed with veneer or paint. The control box can handle one or two sensor/ activator disc combinations to cater for double doors.

Features and benefits

- Switch activator disc requires no connection.
- Switch sensor connected only to control box.
- Control box exterior to furniture requires only SELV wiring in furniture.
- Control box in furniture requires mains power, but can reduce the cable runs to lighting and other equipment.
- Dual output of control box allows separate control of two circuits by either door.
- Control box can be positioned remotely as an actuator for a control system.

Technical

- Rating: two separated circuits, each rated at up to 10A.
- The two Isolated switched output, each having normally open and normally closed options, can be used to switch any connected voltage (including 0-10V signal, on or off).
- Activation zone for sensor by switch activator disc is 12mm.
- Sensor and its wiring are SELV compatible to Zone 0.
- Switch sensor fits into 8mm diameter hole. Switch Activation Disc (5mm deep) fits into shallow 12mm diameter hole.

+44 (0) 20 7794 9152

How to order

All products can be ordered directly from Multiload Technology or through our local representative.

Installation design advice and support

Very few lighting installations are straightforward. But with careful planning, right from the start, you can achieve exciting, innovative and successful results that are economical to maintain.

- Advice on specification and installation design
- Customised solutions
- Project management
- Global product support

Bespoke solutions

Where a specific custom-engineered product is needed for a specific function, we work alongside you to give you the right tools for the job.

www.multiload.co.uk

sophisticated lighting control
future proofed

Installations shown

Back cover:

Foundling Museum

50 St James's

Time and Tide Museum

Lord's Long Room MCC

Spool Post Production Studios

Front cover:

St Pancras Renaissance Hotel

Museo Picasso Malaga

Ed Hardy

St. Patrick's Church

Asha's Restaurant

With kind permission of the Welsh Millennium Centre.
Thermae Bath Spa: Dave Saunders.

Multiload Technology Limited
2 Rosemont Road
London NW3 6NE
T: +44(0)20 7794 9152
F: +44(0)20 7794 9257
E: sales@multiload.co.uk
W: www.multiload.co.uk

+44(0)20 7794 9152